

1 ABSTRACT OF THE DISCLOSURE

2 A method for manufacturing a speaker diaphragm used for a range of audio
3 equipment, a speaker diaphragm made using this manufacturing method, and a
4 speaker employing such diaphragm. This manufacturing method for a speaker
5 diaphragm offers good productivity, preventing deviation in wettability and heat
6 deformation of speaker diaphragms in plasma treatment, and also offers a speaker
7 with good input power durability. A meshed etching tunnel (2) made of aluminum
8 is disposed inside a cylindrical quartz reactive chamber (1), and speaker diaphragms
9 (4) are aligned inside the tunnel at a certain interval. Opposing electrodes (5) are
10 disposed outside the reactive chamber (1). Plasma is applied at low temperature to
11 prevent heat deformation. Uniform wettability is also assured by the use of the
12 meshed etching tunnel (2), achieving high productivity. Uniform wettability further
13 stabilizes bonding and improves bonding strength of the speaker diaphragm (4) onto
14 the voice coil (18) and etching (19a), offering a speaker with improved input power
15 durability.

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